

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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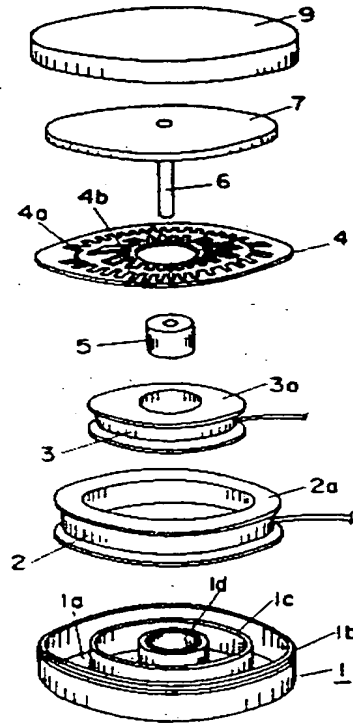
APPLICATION DATE : 24-06-85  
APPLICATION NUMBER : 60137133

APPLICANT : MATSUSHITA ELECTRIC WORKS LTD;

INVENTOR : KOARAI HIROAKI;

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TITLE : 2-PHASE STEPPING MOTOR



ABSTRACT : PURPOSE: To reduce the thickness and the manufacturing cost of a stator pole of a 2-phase stepping motor by opposing N- and S-poles to a radially magnetized rotor disk to concentrically dispose two doughnut plate-like stator poles of different radii.

CONSTITUTION: A plurality of N- and S-poles are alternately magnetized radially to form a rotor disk 7. Two poles 4a, 4b arranged alternately in a zigzag manner on the inner and outer peripheral surfaces of a pair of annular yokes with pole teeth of the same number as the rotors are disposed at 90° of electric angle displaced concentrically to form a stator pole plate 4. The poles 4a, 4b are magnetized by two annular coils 2, 3 disposed concentrically to rotatably drive the disk 7. Thus, since two sets of stator poles are disposed in the same plane, the flatness is enhanced. The poles plates 4 can be also manufactured by one punching work.

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